

## CLAIMS

1. A method of inkjet printing a substrate, comprising the steps of:

(a) providing an ink jet printer that is responsive to digital data signals, said printer being equipped with a printhead array which is fixed in position  
5 ("fixed array") and which ejects ink droplets of about 1-2 pL;

(b) loading the printer with the substrate to be printed;

(c) loading the printer with a color ink jet ink set comprising:

(i) a cyan ink having a vehicle and at least about 2.5 percent by weight of soluble cyan dye,

10 (ii) a magenta ink having a vehicle and at least about 3.6 percent by weight of soluble magenta dye and

(iii) a yellow ink having a vehicle and at least about 3.0 percent by weight of soluble yellow dye; and

15 (d) moving the substrate past the printhead array and printing on the substrate using the inkjet ink set in response to the digital data signals.

2. The method of claim 1, wherein the inks of the ink set have viscosity (at 25°C) of less than about 7 cps.

3. The method of claim 1, wherein the ink set further comprises a black ink.

20 4. The method of claim 1, wherein the cyan dye is C.I. AB9 dye, the magenta dye is C.I. AR52 dye and the yellow dye is C.I. AY23 dye.

5. The method of claim 1, wherein the inks of the ink set have an aqueous vehicle.

6. The method of claim 5, wherein the ink set further comprises a black ink.

25 7. The method of claim 1, wherein (i) the cyan ink has at least about 2.5 percent and up to about 8 percent by weight of soluble cyan dye, (ii) the magenta ink has at least about 3.6 percent up to about 10 percent by weight of soluble magenta

dye, and (iii) the yellow ink has at least about 3.0 percent up to about 11.5 percent by weight of soluble yellow dye.

8. The method of claim 7, wherein the droplets are about 2 pL.

5 9. The method of claim 8, wherein (i) the cyan ink has at least about 4.25 percent by weight of soluble cyan dye, (ii) the magenta ink has at least about 5.1 percent by weight of soluble magenta dye, and (iii) the yellow ink has at least about 6.1 percent by weight of soluble yellow dye.

10. The method of claim 7, wherein the droplets are about 1.5 pL.

10 11. The method of claim 10, wherein (i) the cyan ink has at least about 2.75 percent by weight of soluble cyan dye, (ii) the magenta ink has at least about 4.1 percent by weight of soluble magenta dye, and (iii) the yellow ink has at least about 3.5 percent by weight of soluble yellow dye.

15 12. The method of claim 10, wherein (i) the cyan ink has at least about 4.9 percent by weight of soluble cyan dye, (ii) the magenta ink has at least about 5.8 percent by weight of soluble magenta dye, and (iii) the yellow ink has at least about 7.2 percent by weight of soluble yellow dye.

13. The method of claim 7, wherein the droplets are about 1 pL.

20 14. The method of claim 13, wherein (i) the cyan ink has at least about 3.5 percent by weight of soluble cyan dye, (ii) the magenta ink has at least about 5.0 percent by weight of soluble magenta dye, and (iii) the yellow ink has at least about 4.3 percent by weight of soluble yellow dye.

25 15. The method of claim 13, wherein (i) the cyan ink has at least about 6.1 percent by weight of soluble cyan dye, (ii) the magenta ink has at least about 6.9 percent by weight of soluble magenta dye, and (iii) the yellow ink has at least about 8.9 percent by weight of soluble yellow dye.

16. The method of claim 7, wherein the inks of the ink set have viscosity (at 25°C) of less than about 7 cps.

17. The method of claim 7, wherein the ink set further comprises a black ink.

18. The method of claim 7, wherein the cyan dye is C.I. AB9 dye, the magenta dye is C.I. AR52 dye and the yellow dye is C.I. AY23 dye.

19. The method of claim 7, wherein the inks of the ink set have an aqueous vehicle.

5 20. The method of claim 19, wherein the ink set further comprises a black ink.